Why are digital skills critical for older persons?

New e-Ageing society

Prof. Dr Toshio OBI

Waseda University Japan

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Prof. Dr Oshio Obi

@ Director and Professor
Institute of e-Government
at Waseda University Japan

- Special Envoy of ITU Secretary General for Academia, Geneva
- Chair National e-Government Promotion Council of Japan
- Member MIC Minister’s ICT Growth Strategy Council
- Co-Chair Japan-China Forum on e-Ageing
- Chair APEC on ICT Applications for the People with special needs-Ageing and Disability
- ex-Director OECD project on e-Ageing
- Authors: 「ICT and Ageing Society」「Smart Innovation」 IOS Press
- Speakers at UNIDOP DSPD and CSocD54
Japan as NO.1 SuperAgeing Society

Issue 1 Economic impact:
1. unemployed Seniors 80% of retired persons seek jobs but 20% can get
2. Economic disparity = Rich vs Poor elderly become bigger gap

Issue 2 Social impact
- Pension system and medical / healthcare need reform
- New big public projects for Ageing infrastructure in urban communities—old road / hospital/ school/building
- Demographic change—40% of population will be age 65+ in 2050
- Long Happy life—Men 83 and Women 89 years old

Issue 3 The Seniors are [Asset] (65% of national financial assets belong to them), not Burden. Expenditures exceed $1 trillion including Paying taxes as big spender/consumers in Japan.
Transformation of Digital Economy by Smart Silver Community

The first in history to converge [Ageing] and [ICT] Societies

ICT Utilization - Open Innovation to Silver business in all sectors

- Agriculture
- Business
- Medical Service
- Governance
- ITS
- Home ICT
- Transportation
- Electric cars
- Home
- Education Research
- e-Textbook
- e-Learning
- e-Governance
- e-Blackboard
- e-Chart
IoT utilization for an Aging Society

3 Criteria of SILVER ICT –IoT Innovation

World Silver industry will grow at $27 Trillion by 2050

Plenty of activities for silver society

HOME ELECTRONICS

Smart home (supportive housing)
Sensors by bed occupancy and nightlight
Home safety alerts and GPS
OASIS (open architecture for sensor)
Remote for single living sensors
Environmental controls
Cooker safety
Home treatment

HEALTHCARE

Telehealth (e-health)
Health information management
Telecare
Just checking
Robot care (Robot)
Service innovation in hospital
Dreaming (nursing home)
E-carte
Client monitoring system

LIFE INNOVATION

E-inclusion
Ambient assisted living Online shopping
Net reservations with touch panel
E-banking & e-payment
ICT ethics for ageing
TV-seniority and programs for the elderly
Social alarms
Social communication technologies
Senior net talking
Easy call, easy mobile and easy PC
Dining-My Spoon

Health Management apps via Simple Phones

Robot Suit Hybrid Assistive Limb®

Senior Communication's social networking

Smart Silver Innovation

Assisted Robots/ Communication Robots Destructive technologies

ICT for Older persons
Constructing sustainable models based on the requirements of users, such as elderly people, to provide circulation in local economies to help resolve problems in each super-aged society. Such models will include a life support business, which will organically link the government, enterprises, local residents, and other participants, to daily life services (e.g., shopping assistance, meal delivery, care watch, and transportation services) and community-related businesses.

Life support businesses to provide support to elderly people’s daily lives

- Elderly person needs
- Shopping, meals
- Watching out for bonds with grandchildren
- Who should I contact?

Hearing of an elderly person’s needs

- Daycare services, etc.

Economic effect on a scale of 13 trillion yen in 2020

Seamless life support to achieve a maintenance cycle of health and independent living.

Coordinating life support services under cross-industry cooperation to meet elderly people’s needs.

The life-support service that a new business cooperated

- Coordinator
- Efficiency of the service
  ✓ Price reduction
  ✓ Quality improvement

- Sharing of vital health information
- Sharing the needs of elderly
- Sharing of know-how (accessibility and usability)

Contents of specific measures

- Improvement of the QOL
- Life-support
- The life that became independent
- Health maintenance and improvement
- Something to live for

Seamless and efficient life support services.

Medical treatment, care

Administering

Watching

Various services, trips

Delivery to home, food service

Shopping, department store
United Nations Conferences on Ageing Society at UN, New York
Oct.15 2015 and Feb.8 2016
2 Speeches by Prof. Obi Japan [Creating Smart Silver Innovation]
Japan–China–Korea Triilateral Forum on Ageing Issues Beijing 2012
Japan–China Forum every year since then
Japan as the highest Ageing % (30%) VS China as the biggest Ageing population (140 Million) 2017
APEC TEL Workshop on e-Ageing in Singapore in 2014, Tokyo in 2015 and Moscow in 2017, chaired by Prof. Obi
The Japan–EU Policy Forum on Silver ICT at EC, Brussels in 2013/at 東京 in 2015

Participants

日本: 20 experts by govт business, & academia

Chaired by Prof. Obi

EU: 25 experts

Topics: EU Horizon 2020 and collaboration between Japan EU on Silver ICT/healthy ageing
New Trends and Global Issues

- Increasing “Urban Ageing”
- Increasing “Living Alone” at Home
  - 1/3 female will be older women in Japan
- Increasing Bigger Income Gap/Inequality > Poverty eradication
- Increasing NEW Digital Divide = AI+IoT+BD+Cloud
- Increasing Nursing at Home (Family care > Hospital)
  - due to shortage of both government budget and Caregivers/nursing in hospital
  - need family education/training and inclusion on healthcare
Popular Applications for Silver Technology Innovation

IoT = Bigdata = AI for “Smart Silver Society”

- Assistive Robots (expensive?)
- Self Health check by digital device
- BCP (Business Continuity Plan) for Disaster Reduction
- Smart Digital Home for Quality of Life
- Online Shopping at Home
- VR (Virtual Reality) for leisure
- Auto Driving = Smart Mobility (2025)
- Security and Monitoring System for Safe/Secure Life
- 5G mobile and 8K TV (2020)
4 Questions & Recommendations

1. Life-Long Learning to acquire digital skills
   - Active role of university/vocational school for LLL/e-Learning on digital skills

2. Innovative technology for older persons
   - AI must increase jobs for the ageing (AI will kill a half of all human jobs in 2040)

3. Usage of the above for poverty eradication
   - New job style: Telework / Silver Venture / silver SME / Online service/ Cross-border workplace (anytime, anywhere for ageing people)

4. User-friendly technological adaptation
   - Creating UN Voluntary Fund for promoting Silver digital employment & global action & research on e-ageing by IT companies
Thank you !!

Prof. Dr Oshio OBI
Waseda University   Japan